



## **Solenoid Valves Technical Information**

3-Way, 2-Position Spool SV08-23-01



#### **OPERATION**

Solenoid Valve, Spool Type, 2-Position, 3-Way, Normally Closed, Push-Type. When de-energized, the SV08-23-01 allows flow from port 1 to port 2, while port 3 is blocked. When energized, flow is allowed from port 3 to port 1, while port 2 is blocked. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation. This valve comes standard with a one-direction, push-pin manual override.

## **APPLICATIONS**

These spool-type valves are commonly used in a selector circuit, or as an on/off pilot control for a directional spool valve. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool clearance, so if your application requires no leakage at the working port(s), apply a low leakage poppet valve(s), like PO check valve, counterbalance valve, etc., in addition to this solenoid valve. This valve can operate with an inlet pressure of 315 bar for 400,000 cycles. In case of inlet from port 2 this value can be increased to 600,000 cycles.



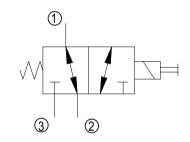
Shown with Standard Coil, Deutsch Connector

## **SPECIFICATIONS**

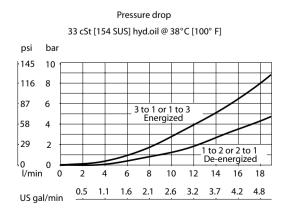
Rated pressure*	230 bar [3300 psi]**
Rated flow at 7 bar	17 l/min
[100 psi]	[4.5 US gal/min]
Weight	0.31 kg [0.68 lb]
Cavity	SDC08-3
Standard Coil	M13 20 Watt
Robust Coil	<b>R13</b> 16 Watt
	Robust Nut P/N <b>173800539</b>
	(no coil O-rings needed)

<sup>\*</sup> Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

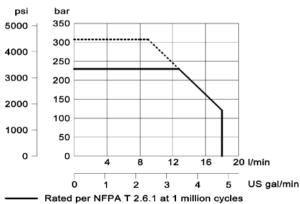
#### **SCHEMATIC**



## **PERFORMANCE CURVES**



## Operating envelope



<sup>\*\*</sup> See 315 bar pressure rating note on page 10.



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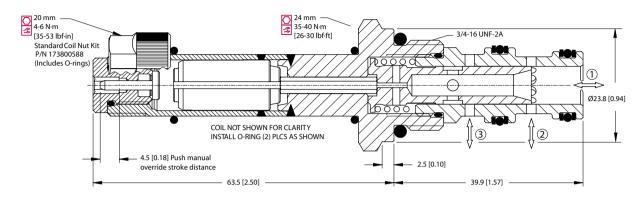
3-Way, 2-Position Spool SV08-23-01



## **DIMENSIONS**

## **Cross-sectional view**

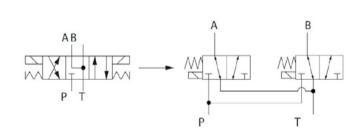
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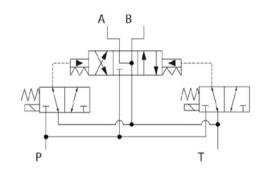


## **EXAMPLE CIRCUITS**

# Create a Low Pressure 4-Way, 3-Position Directional Control Valve

## On/Off Pilot Control for Directional Spool Valve





## **ORDERING INFORMATION**

